

FRASER LAB LEVEL II AND III REMODEL - DFCM PROJECT NO. 03210390
SPECTRUM ENGINEERS
JANUARY 2, 2004 PAGE 1
ADDENDUM

DRAWING M 1.2

See attached drawing Addendum SDM-01 for location of added reduced pressure backflow preventor on cold water supply to the new Autoclave.

PROJECT MANUAL

Add the attached Specification Section 15430 to the Project Manual.

SECTION 15430 - PLUMBING SPECIALTIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes plumbing specialties for water distribution systems.
- B. Related Sections: The following sections contain requirements that relate to this Section:
 - 1. Division 15 Section "Basic Mechanical Materials and Methods" for piping-joining materials, joint construction, basic installation requirements, and labeling and identifying requirements.
 - 2. Division 15 Section "Valves" for ball, butterfly, globe, and check valves.
 - 3. Division 15 Section "Meters and Gages" for thermometers, pressure gages, and fittings.
 - 4. Division 15 Section "Plumbing Piping" for piping and connections.

1.3 SYSTEM PERFORMANCE REQUIREMENTS

- A. Provide components and installation capable of producing piping systems with following minimum working pressure ratings, except where otherwise indicated:
 - 1. Water Distribution Systems, Above Ground: 125 psig.

1.4 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.
- B. Submit product data including rated capacities of selected models and weights (shipping, installation, and operation). Indicate materials, finishes, dimensions, required clearances, and methods of assembly of components; and piping and wiring connections for the following plumbing specialty products:
 - 1. Backflow preventers.
- C. Maintenance data for inclusion in Operating and Maintenance manuals as specified in Division 1 Section "Contract Closeout" for the following:
 - 1. Backflow preventers.

1.5 QUALITY ASSURANCE

- A. Comply with ASME B31.9, "Building Services Piping," for materials, products, and installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Backflow Preventers:
 - a. Ames Co., Inc.
 - b. Cash by A.W. Cash Valve Mfg. Corp.
 - c. Cla-Val Co.

- d. Conbraco Industries, Inc.
- e. Febco.
- f. Hersey Products, Inc., Grinnell Corp.
- g. Sparco, Inc.
- h. Watts Regulator Co.
- i. Wilkins Regulator Div., Zurn Industries, Inc.

2.2 BACKFLOW PREVENTERS

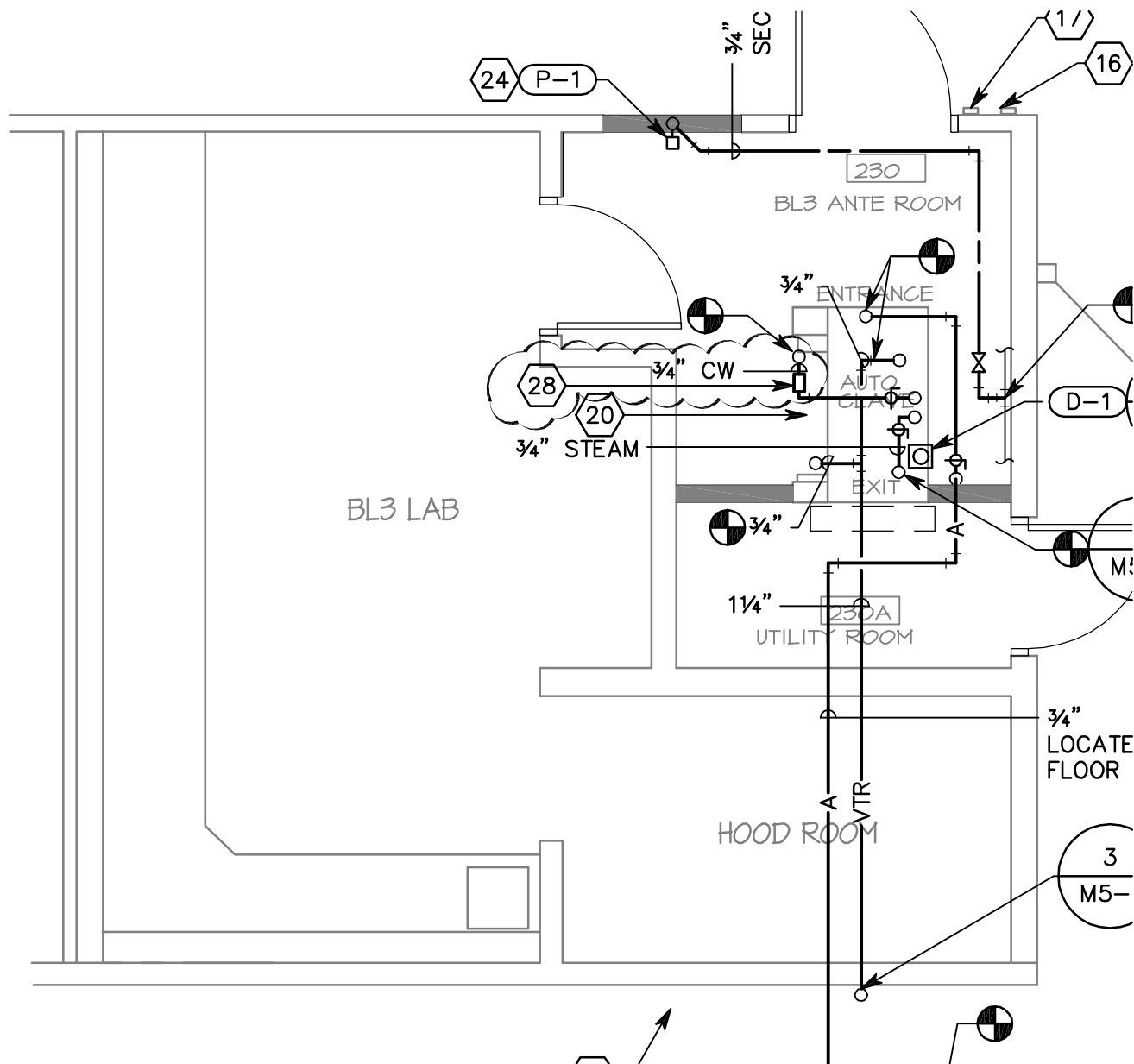
- A. General: ASSE Standard, backflow preventers, of size indicated for maximum flow rate indicated and maximum pressure loss indicated.
 - 1. Working Pressure: 150 psig minimum except where indicated otherwise.
 - 2. 2 Inches and Smaller: Bronze body with threaded ends.
 - 3. Interior Components: Corrosion-resistant materials.
 - 4. Exterior Finish: Polished chrome plate when used in chrome-plated piping system.
 - 5. Strainer on inlet, where strainer is indicated.
- B. Reduced-Pressure-Principle Backflow Preventer: ASSE 1013, consisting of ball valves on inlet and outlet and strainer on inlet. Include test cocks and pressure-differential relief valve having ASME A112.1.2 air-gap fitting located between 2 positive-seating check valves for continuous pressure application.
 - 1. Pressure Loss: 12 psig maximum, through middle 1/3 of flow range.

PART 3 - EXECUTION

3.1 PIPING SPECIALTY INSTALLATION

- A. Install backflow preventers of type, size, and capacity indicated, at each water supply connection to mechanical equipment and systems, and to other equipment and systems as indicated. Comply with plumbing code and authority having jurisdiction. Locate in same room as equipment being connected or as shown on drawings. Install air-gap fitting on units having atmospheric vent connection and pipe relief outlet drain to nearest floor drain. Do not install bypass around backflow preventer.
 - 1. After installation, the backflow prevention devices shall be tested as required by the Plumbing Code with Amendments to show proper operation. The testing shall be accomplished by a Certified Backflow Assembly Tester. A copy of the test certificates shall be included in the Operation and Maintenance Manuals.

END OF SECTION 15430



28. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTOR ON COLD WATER SUPPLY TO AUTOCLAVE (FULL LINE SIZE AS INDICATED).



175 South Main Street, Suite 300
Salt Lake City, Utah 84111
801-328-5151 800-678-7077
FAX 801-328-5155
www.spectrum-engineers.com
© 2003 Spectrum Engineers, Inc.

REFERENCE:	M1-2
ISSUE:	ADDENDUM
DATE:	01.02.04
PROJ NO:	20030538
DRAWN BY:	EWL
CHECKED BY:	RJL

SHEET TITLE		PLUMBING PLAN
		2ND LEVEL BL3 LAB
PROJECT		FRASIER LAB LEVEL II
		AND LEVEL III REMODEL
SCALE	1/4"=1'-0"	
		SDM-01